

**Listing of All Claims Including Current Amendments**

1-8. (cancelled).

9. (previously presented) A method for improving a diagnostic or surgical procedure involving a variable direction of view endoscope with a variable line of sight comprising:

acquiring volumetric scan data of a subsurface structure;

positioning said endoscope relative to said subsurface structure;

acquiring configuration data of an internal view changing mechanism of the said endoscope;

establishing the position of said endoscope relative to said subsurface structure;

and

based on said volumetric scan data, said endoscope position data, and said configuration data, displaying representations of said subsurface structure and said endoscopic line of sight in their correct relative spatial relationship.

10. (previously presented) The method of claim 9, further comprising displaying a representation of the rotational orientation of the endoscopic view.

11. (previously presented) The method of claim 9, wherein said establishing endoscope position relative to said subsurface structure comprises:

correlating at least one endoscopic view with the corresponding region of said volumetric scan data by feature matching and identification; and

computing the relative position of said endoscope and said subsurface structure using said configuration data for each said endoscopic view and the location of each said corresponding region obtained through said feature matching, and identification.

12. (previously presented) The method of claim 9, further comprising:

selecting a target point relative to said volumetric scan data; and

instructing said endoscope to direct its line of sight towards said target point.

13. (previously presented) The method of claim 9, further comprising:

selecting a path relative to said volumetric scan data; and

instructing said endoscope to direct its line of sight to follow said path.